| Parcel: | G Unit: | ES116 (S0113) |
|---------|--|---------------|
| | lectronic de la constant de la const | , , |

| | | | Se | ection I: Re | eason F | or Evaluat | tion (Sum | mary of Fla | gged Data): | | |
|--|--|---------------------|------------|--------------|-----------|-------------|--------------|-------------|-------------|--------|----------|
| 1) | K-S T | est: Pass | | | | | | - | • | | |
| | 1) K-S Test: Pass/Fail? Units Evaluation Flags | | | | | | | | | | |
| Ac- | 228 | Bi-212 | Bi-214 | Cs-137 | K-40 | Pb-212 | Pb-214 | Ra-226 | Total | | |
| | | | | 2 | | | | | 2 | Pass □ | Fall (2) |
| | Days Evaluation Flags | | | | | | | | | | |
| Ac- | 228 | Bi-212 | Bi-214 | Cs-137 | K-40 | Pb-212 | Pb-214 | Ra-226 | Total | | |
| | | | | | | | | | 0 | | |
| 2) | Logic | Tests: Pa | ass/Fail? | 1 | L | | 1 | | .1 | Pass ⊠ | Fall 🖸 |
| | | | | samples co | ollected | on the sa | ame day? | | | | |
| | | | | S Samples | | | | 2008. | | Yes ⊠ | No 🖂 |
| | Logic | Test 2: \ | Were FSS | samples co | ollected | d on the sa | ame day o | r after | | | |
| | confi | rmatory/ | biased sa | mples we | re colle | cted? | | | | Yes □ | No 🖂 |
| | | Observ | /ation: No | o confirma | tory/bi | as sample | s were co | llected. | | | |
| | Logic Test 3: Were samples collected before they were counted? | | | | | Yes ⊠ | No 🛘 | | | | |
| | Observation: | | | | | | | | | | |
| Logic Test 4: Were all FSS samples analyzed within 2 working days? | | | | | . 500 | | | | | | |
| Observation: FSS samples were analyzed onsite on 07/02/2008 and 07/03/2008. Yes ☑ No | | | | | No L | | | | | | |
| | Logic Test 5: Were samples counted within 2 weeks of sample collection? | | | | | Yes ⊠ | No 🖸 | | | | |
| | Observation: | | | | | ies 🔼 | 40 L | | | | |
| | Logic Test 6: Is the mass of the sample reported by the onsite lab the same as the | | | | | | | | | | |
| | mass reported by the offsite lab? Observation: Offsite Lab mass was not reported. | | | | | | Yes 🗆 | No 🖽 | | | |
| | | | | | nass wa | s not repo | orted. | | | | |
| 3) | Time | | lots: Pass | | | | | | | Pass 🗵 | Fall (C) |
| | Bi-21 | 4 | | es or unusi | ual tren | ds identif | ied? | | | No 🗵 | Yes [] |
| | | - | Notes: | es or unusi | ıal tren | ds identifi | ied? | | | No 🏻 | Yes D |
| | Ac-22 | ንጸ ⊢ | Notes: | 25 01 411450 | aur ti ci | as lacitum | icu. | | | 140 23 | |
| | V 40 | | Anomalie | es or unusi | ual tren | ds identif | ied? | | | No ⊠ | Yes El |
| | K-40 | | Notes: | | | | | | | | |
| 4) | | | | Site Locat | | | <u>-</u> | | | No ⊠ | Yes 🖽 |
| | | a known , where? | | cleanup p | erform | ed at (or r | near) this s | site? | | No ⊠ | Yes 🖸 |
| | | | | cted to or | downs | tream fror | n a radiolo | ogically-im | acted | | |
| | build | ing? | | | | | | J, | • | No ⊠ | Yes 🗓 |
| | | , which b | | | | | | | | | |
| 5) | Alleg | ation: Ye | es/No? | | | | | | | No □ | tes 🗵 |
| If yes, description: Suspect worker involved with data collection. | | | | | | | | | | | |

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Parcel: G Unit: ES116 (S0113)

| 1) Other Statistic | s Results | | Pass ⊠ Fail □ |
|---|----------------------------|--|--|
| Day Diata | Anomalie | or unusual trends identified? | No ⊠ Yes □ |
| Box Plots | | | |
| Normal | No ☑ Yes □ | | |
| Quantile Plots | Notes: | | |
| 2) Additional Dat | abase Rev | ew Performed? | No □ Ne S |
| | | tigate K-S-Test Flags | |
| otherwise the | e data were e K-S flags | sults for S0113 were generally higher than the average within the expected range and were low compared to not suggest potential data falsification nor do they ination. | to the removal action |
| 3) Adjacent Surv | ey/Trench | Unit Review | Pass ⊠ Pall C |
| List of Adjace | nt Units: R | eview origin TUs (TU105 and TU113) | |
| Was a review | of adjacer | t unit's data performed? Yes | |
| Anomalies or | unusual tr | ends identified? | No 🖾 💮 Yes 🖸 |
| lower variabil | ity associa | TU105 and TU113 are consistent with the results reposed with ES116 distributions could result from blending this fill unit. No evidence of potential data falsifica | ng of soils from the two |
| 4) SUPR or FSSR | Review Pe | formed? – March 2011 Final SUPR | |
| Summary of Excavation / S Activities | Sampling | The gamma scan of ES116 did not identify any meas investigation level. Therefore, no additional samples systematic samples were collected from ES116. Sam randomly selected to be analyzed for Sr-90. None of activity above the release criteria for any radionuclions. | s were collected. Eighteen (18 ople numbers 04 and 10 were f the sample results identified |
| Gamma Stations | | Not provided in the SUPR. | |
| Gamma Scan Observations | | Total gamma scan measurements averaged 1,719 cpm and a standard deviation of 114 cpm. No meas investigation level. | |
| List of Excava Overburden l Used for Back | Jnits [°] | ES115 and ES116 were used to backfill TU113 | |
| Onsite / Offsi Data Compar | | Samples 11 and 16 were sent for offsite analysis; the | e data are consistent. |
| Scan / Static S Name: | Surveyor | J. Cunningham | |
| Sampler / Sur Name: | veyor | Not provided in the SUPR. | |
| 5) RACR or CSR R | eview Per | ormed? – December 2011 Final Parcel G RACR | |
| List of Excava | • | ES116: TU105 (64%) and TU113 (36%) | |
| Overburden l | Jnits | RACR Table 3-4 reports that ES116 was subject to 18 | 2 samples and no DOCs or |

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| Parcel: G | Unit: ES116 (S0113) | | |
|--|--------------------------------|----------------------------|---|
| | Section III: Conclusion | s and Recommendations | |
| Summary of Findings: Ba found. | sed on the findings of this ev | aluation, no evidence of p | potential data falsification was |
| No Further Action ■ Control No Further Action No Further Action ■ Control No Further Action No Further Action ■ Control No Further Action No Further | ☐ Reanalyze Archived Samples | ☐ Confirmation Sampling | ☐ Physical Inspection of Archived Samples |
| ☐ Other Recommendat | ions: | | |
| Additional Information R | Required: None. | | |
| Camandata d bun Caatt 186ala | :-1-: | Data: 00/04/2017 | |
| Completed by: <u>Scott Waln</u> | пскі | Date: <u>08/04/2017</u> | |
| Reviewed by: <u>Alejandro L</u> | opez, CHP | Date: <u>09/07/2017</u> | |

Date: 09/08/2017

Acronyms:

Ac Actinium (e.g., Ac-228)

Approved by: Matt Liscio

B Former Building (or other site) Surface Soil Survey Unit

Bi Bismuth (e.g., Bi-214)
Cs Cesium (e.g., Cs-137)
CSR Construction Summary Report

CSR Construction Summary Repor COC Chain of Custody ESU Excavation Survey Unit

FSS Final Status Survey
FSSR Final Status Survey Report
K Potassium (e.g., K-40)
OB Overburden Unit
Pb Lead (e.g., Pb-212)
pCi/g picocuries per gram
Ra Radium (e.g., Ra-226)

RACR Remedial Action Completion Report

ROC radionuclide of concern

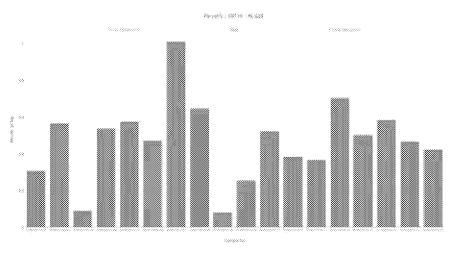
S Sewer or Storm Drain Removal Survey Unit

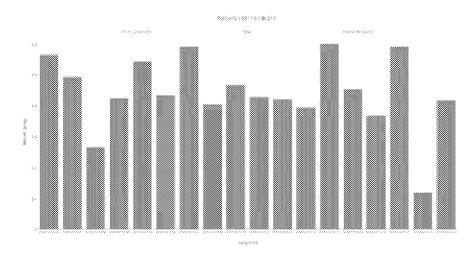
SUPR Survey Unit Progress Report

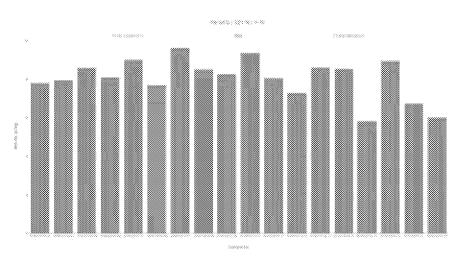
TU Trench Unit

| | Forecond control of the control of t | |
|-------------|--|--|
| | | |
| Parcel: G | Unit: ES116 (S0113) | |
| raicei. G | OUIT: E2110 (20112) | |

Time-Series Plots



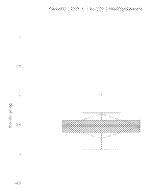


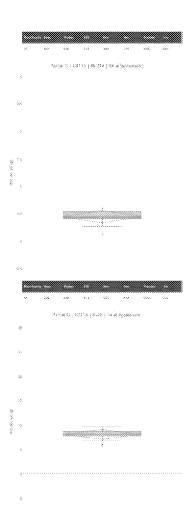


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| Parcel: | G Unit: | ES116 (S0113) |
|---------|---------|---------------|
| | | |

Box Plots

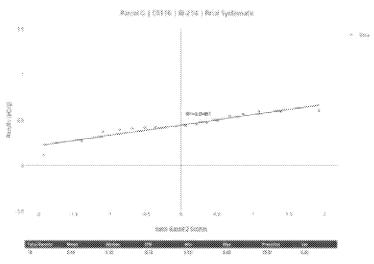




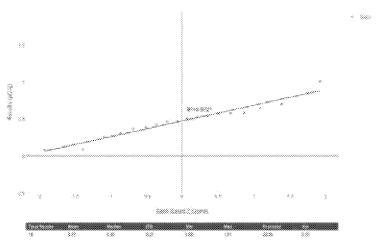
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| Parcel: G | |
|-------------|--|

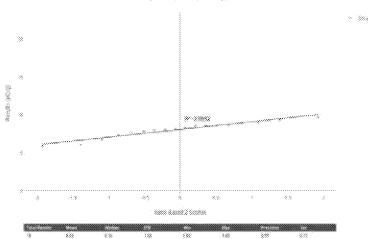
Normal Quantile Plots



Burket G. (1005 to), 80 (2081) Bess Sylversotti.



Partial G. J. CSY16- J. R-ASI J. Birtal Systematic



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